Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- (previously presented) A semipermeable hollow-fibre membrane, particularly for use in hemodialysis, hemodiafiltration and hemofiltration, comprising
 - a hydrophilic, water-wettable membrane being based on
 - a hydrophobic first polymer being selected from the group consisting of an aromatic sulfone polymer, a polycarbonate, polyimide, polyetherimide, polyetherketone, polyphenylene sulfide, or a copolymer or a modification of these polymers, or a mixture of these polymers and
 - a hydrophilic second polymer being selected from the group consisting of polyvinylpyrrolidone, polyethylene glycol, polyvinyl alcohol, polyglycol monoester, polysorbate, carboxymethylcellulose, or a modification or copolymer of these polymers,

possessing an open-pored, integrally asymmetric structure across its wall with a porous separating layer of thickness 0.1 to 2 μm on its inner surface facing the lumen and an open-pored supporting layer adjoining the separating layer, and

having an ultrafiltration rate in albumin solution in the

range of 25 to 60 ml/($h \cdot m^2 \cdot mmHg$),

wherein after prior drying, the hollow-fibre membrane has a minimum sieving coefficient for cytochrome c of 0.8 combined with a maximum sieving coefficient for albumin of 0.005, and

whereby the hollow-fibre membrane in the dry state is free from pore-stabilising additives in the membrane wall.

2-3. (cancelled)

- 4. (previously presented) Hollow-fibre membrane according to Claim $\underline{1}$, characterized in that the aromatic sulfone polymer being selected from the group consisting of polysulfone, polyethersulfone, polyphenylenesulfone or polyarylethersulfone.
- 5. (currently amended) Hollow-fibre membrane according to Claim 1, characterized in that the <a href="https://hydrophobic.hydr

(cancelled)

7. (previously presented) Hollow-fibre membrane according to Claim 1, characterized in that the supporting layer extends from the separating layer across essentially the entire wall of the hollow-fibre membrane, has a sponge-like structure and is free from finger pores.

- (previously presented) Hollow-fibre membrane according to Claim 1, characterized in that it has a minimum sieving coefficient for cytochrome c of 0.85.
- (previously presented) Hollow-fibre membrane according to Claim 1, characterized in that it has a maximum sieving coefficient for albumin of 0.003.
- 10. (withdrawn) Method for producing a hydrophilic, waterwettable, semipermeable hollow-fibre membrane according to Claim 1, the method comprising the following steps:
 - a. preparing a homogeneous spinning solution comprising 12 to 30 wt.%, relative to the weight of the spinning solution, of a synthetic first polymer and, if applicable, other additives in a solvent system,
 - extruding the spinning solution through the annular slit of a hollow-fibre die to give a hollow fibre,
 - c. extruding an interior filler through the central opening of the hollow-fibre die, the interior filler being a coagulation medium for the synthetic first polymer and comprising a solvent and a non-solvent for the synthetic first polymer,

- d. bringing the interior filler into contact with the inner surface of the hollow fibre to initiate coagulation in the interior of the hollow fibre and for formation of a separating layer on the inner surface of the hollow fibre and formation of the membrane structure,
- e. passing the hollow fibre through a coagulation bath to complete the formation of the membrane structure if necessary, and to fix the membrane structure,
- f. extracting the hollow-fibre membrane thus formed to remove the solvent system and soluble substances,
- g. drying the hollow-fibre membrane, characterized in that the interior filler contains a polyelectrolyte with negative fixed charges, as a result of which a hollow-fibre membrane is obtained with a minimum sieving coefficient for cytochrome c of 0.80 combined with a maximum sieving coefficient for albumin of 0.005.
- 11. (withdrawn) Method according to Claim 10, characterized in that the spinning solution contains 12 to 30 wt.%, relative to the weight of the spinning solution, of a synthetic first polymer in combination with 0.1 to 30 wt.%, relative to the weight of the spinning solution, of a hydrophilic second polymer.

- 12. (withdrawn) Method according to Claim 11, characterized in that an aromatic sulfone polymer such as polysulfone, polyethersulfone, polyphenylenesulfone or polyarylethersulfone, a polycarbonate, polyimide, polyetherimide, polyetherketone, polyphenylene sulfide, or a copolymer or mixture of these polymers is used as the synthetic first polymer.
- 13. (withdrawn) Method according to Claim 11, characterized in that polyvinyl-pyrrolidone, polyethylene glycol, polyvinyl alcohol, polyglycol monoester, polysorbate, carboxymethylcellulose, or a copolymer of these polymers is used as the hydrophilic second polymer.
- 14. (withdrawn) Method according to Claim 10, characterized in that the solvent system comprises a polar aprotic solvent.
- 15. (withdrawn) Method according to Claim 10, characterized in that the polyelectrolyte is selected from the group of polyphosphoric acids, polysulfonic acids or polycarboxylic acids.

- 16. (withdrawn) Method according to Claim 15, characterized in that the polycarboxylic acids are homo- or copolymers of acrylic acid.
- 17. (withdrawn) Method according to Claim 10, characterized in that the proportion by weight of the polyelectrolyte relative to the weight of interior filler is 0.01 to 1 wt.%
- 18. (previously presented) Hollow-fibre membrane according Claim 1, characterized in that a polyelectrolyte with negative fixed charges is physically bound in the separating layer.
- 19. (previously presented) Hollow-fibre membrane according to Claim 1, with an ultrafiltration rate in albumin solution in the range of 30 to 55 ml/(h·m²·mmHg).
- 20. (new) Hollow-fibre membrane according to claim 1, characterized in that the supporting layer being essentially free from polyelectrolyte with negative fixed charges.